ACCAP
Alaska Center for
Climate Assessment & Policy

Adapting to Climate Change in Alaskan Communities

Sarah F. Trainor

Coordinator, Alaska Center for Climate Assessment and Policy

Stakeholder Liaison, Scenarios Network for Alaska Planning

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Climate Vulnerability & Adaptation Resources and Tools

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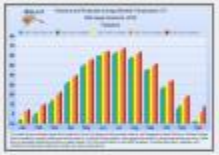
http://www.snap.uaf.edu

Community Charts

SNAP
Scenarios Network for Alaska Planning

Spotlight

Snap Delivers Climate Change Data to Public's Fingertips



Every community in Alaska now has access to climate change data focused on their own backyard, thanks to a new, user-friendly tool created by UAF's Scenarios Network for Alaska Planning... read more »

Objective data for people who make policy, management, and economic decisions

communities • transportation • coastlines • forests • resources • infrastructure

- Home
- SNAP Overview
- SNAP In-Depth
- News Archive
- Contact Info
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SNAP Projects

- Governor's Climate Change Subcabinet
- Boreal ALFRESCO
- All Projects

Maps & Data

- Web-based Maps
- Google Earth Maps
- GIS Data
- Community Charts

Documents

Home

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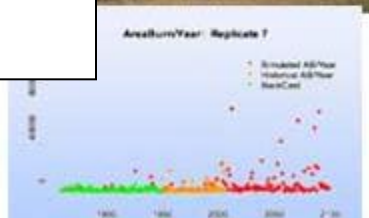

Quick Links

- Climate change projections in Google Earth format
- SNAP fact sheets and documents
- Governor's Subcabinet on Climate Change
- BLM Eastern Interior Management Area Climate Change Report.pdf (35.9MB) Also available in a low res

Click on "Community Charts"

News Highlights

- Snap Delivers Climate Change Data to Public's Fingertips

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Spotlight

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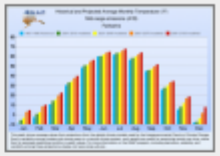

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- Home
- SNAP Overview
- SNAP In-Depth
- News Archive
- Contact Info
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SNAP Projects

- Governor's Climate Change Subcabinet
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- All Projects

Maps & Data

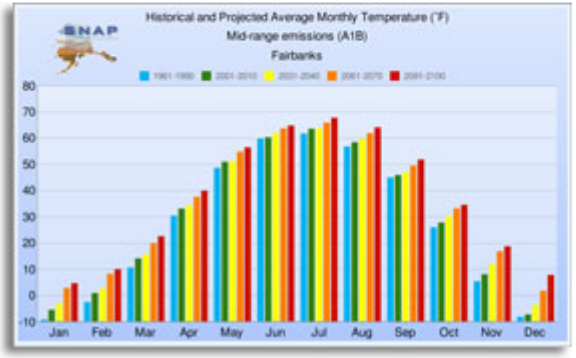
- Web-based Maps
- Google Earth Maps
- GIS Data
- Community Charts

Documents

- Presentations
- Reports
- Publications

Community Charts

Select your community and compare projected future climate results under three scenarios of future greenhouse gas emissions.



Choose Your Community

Filter the list:

Adak
Afognak
Akhiok
Akiachak
Akiak
Akutan
Alakanuk
Alatna
Aleknagik
Allakaket
Ambler
Anaktuvuk Pass
Anchor Point

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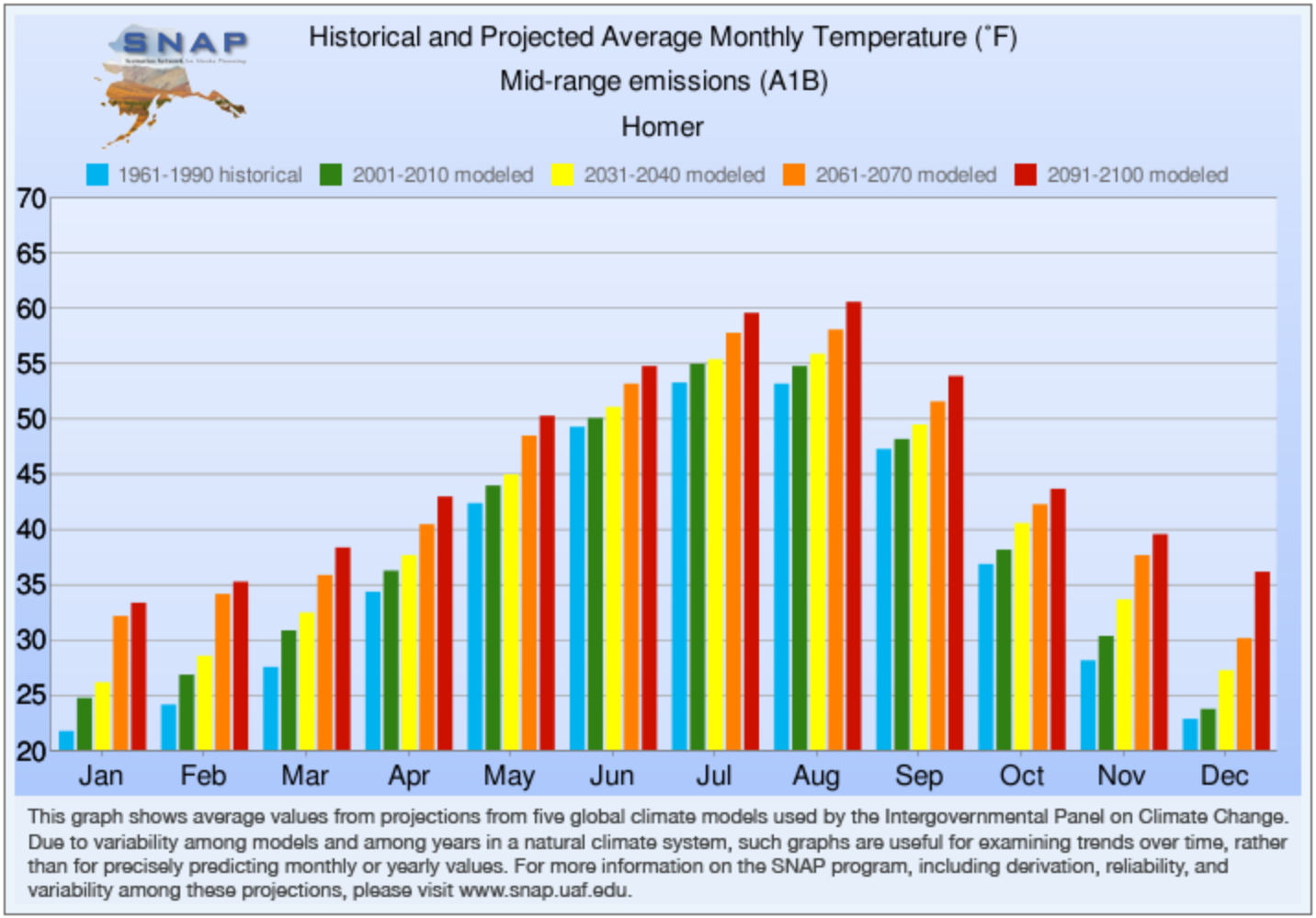
Temperature | Precipitation

Future Greenhouse Gas Emissions:

Low **Medium** High

Details
Print
Download



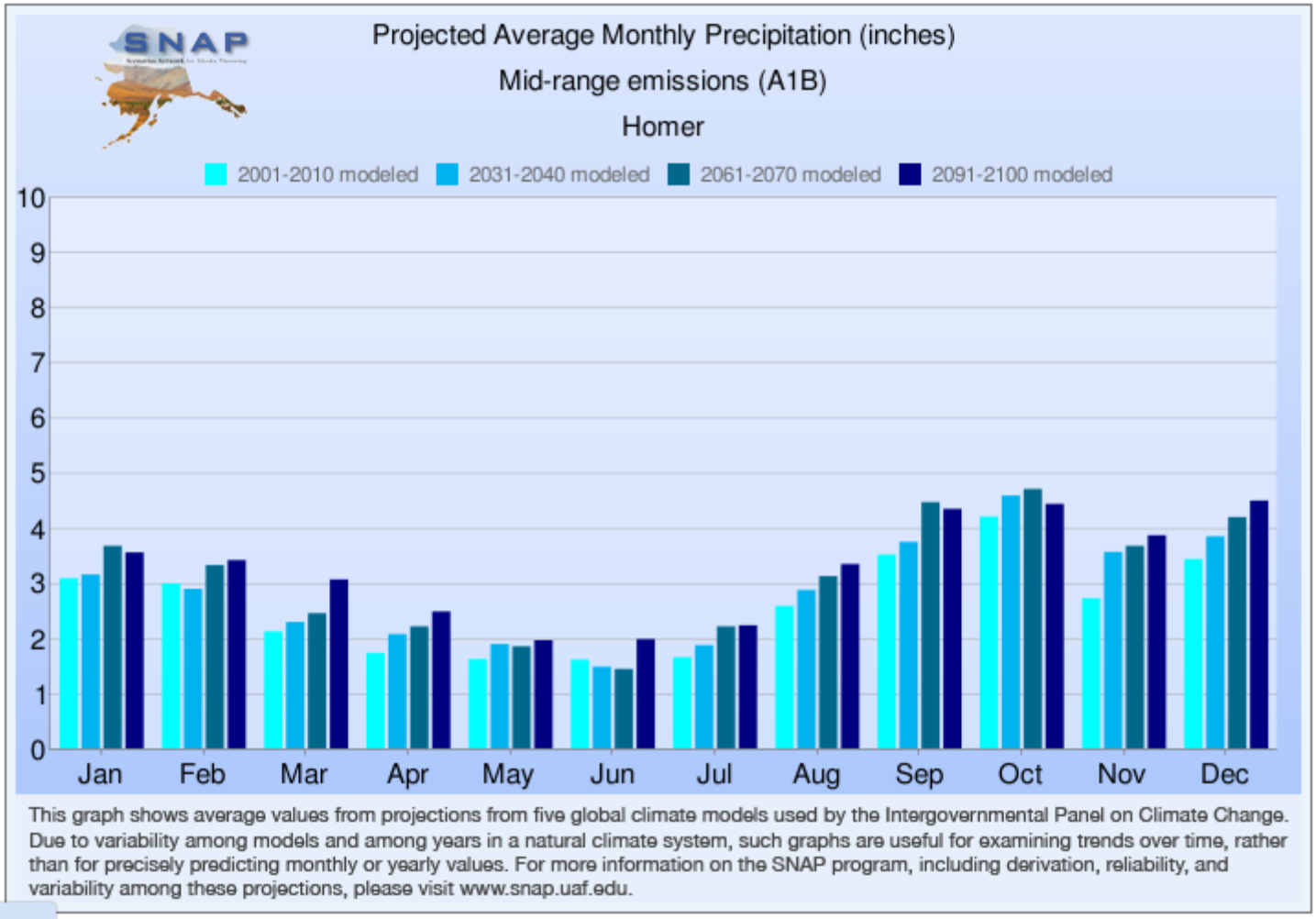
This graph shows average values from projections from five global climate models used by the Intergovernmental Panel on Climate Change. Due to variability among models and among years in a natural climate system, such graphs are useful for examining trends over time, rather than for precisely predicting monthly or yearly values. For more information on the SNAP program, including derivation, reliability, and variability among these projections, please visit www.snap.uaf.edu.

Temperature | **Precipitation**

Future Greenhouse Gas Emissions:

Low | **Medium** | High

Details
Print
Download



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www.snap.uaf.edu Web-Based Maps

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Climate Change Impacts on Water Availability in Alaska

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- Home
- SNAP Overview
- SNAP In-Depth
- News Archive
- Contact Info
- Partners & Affiliations

SNAP Projects

- Governor's Climate Change Subcabinet
- Boreal ALFRESCO
- All Projects

Maps & Data

- Web-based Maps
- Google Earth Maps
- GIS Maps

Documents

- Presentations
- Reports
- Publications

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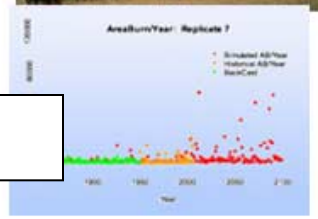

Quick Links

- Climate change projections in Google Earth format
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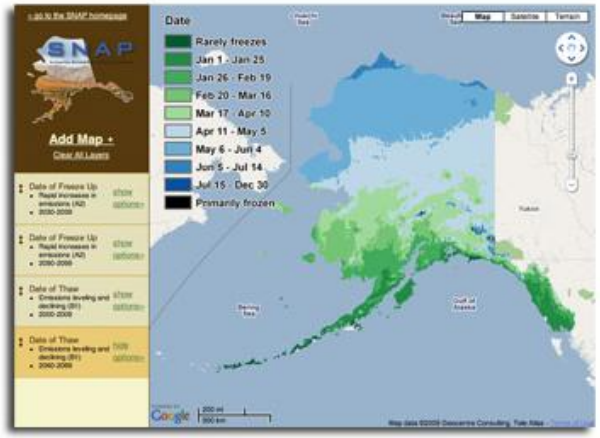
Web-based Maps

Open SNAP's Map Selection Tool for quick and easy access to a wide range of climate projections for the state of Alaska at a 2km resolution. You can view, print and save the maps to your computer.

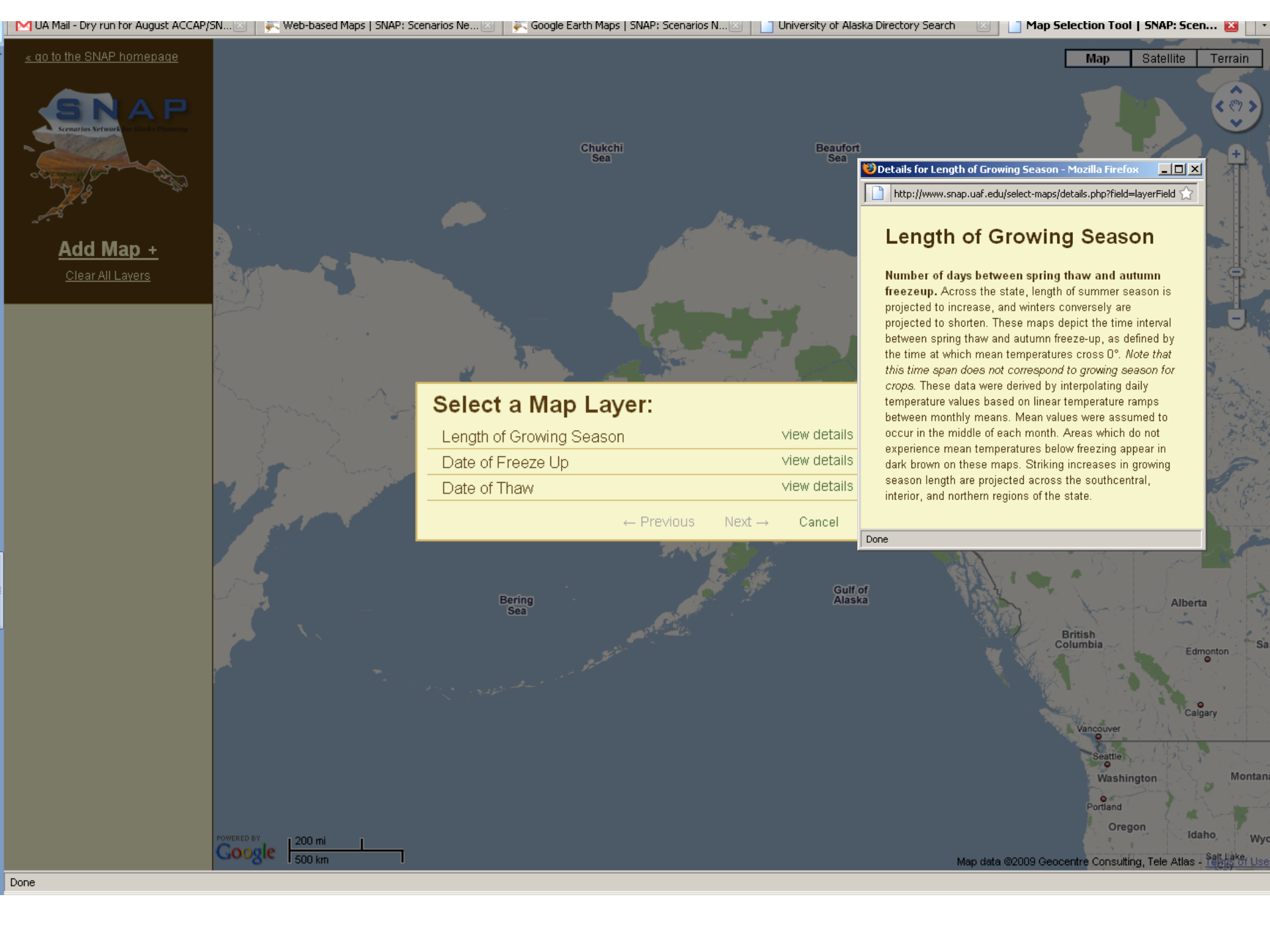


Other Maps

We also have more maps available in Google Earth and GIS formats.

Click on "Open SNAP's Map Selection Tool"

Scenarios Network for Alaska Planning
PO Box 757200 Fairbanks, AK 99775-7200
ffnlf@uaf.edu | tel 907.474.2405 | fax 907.474.6184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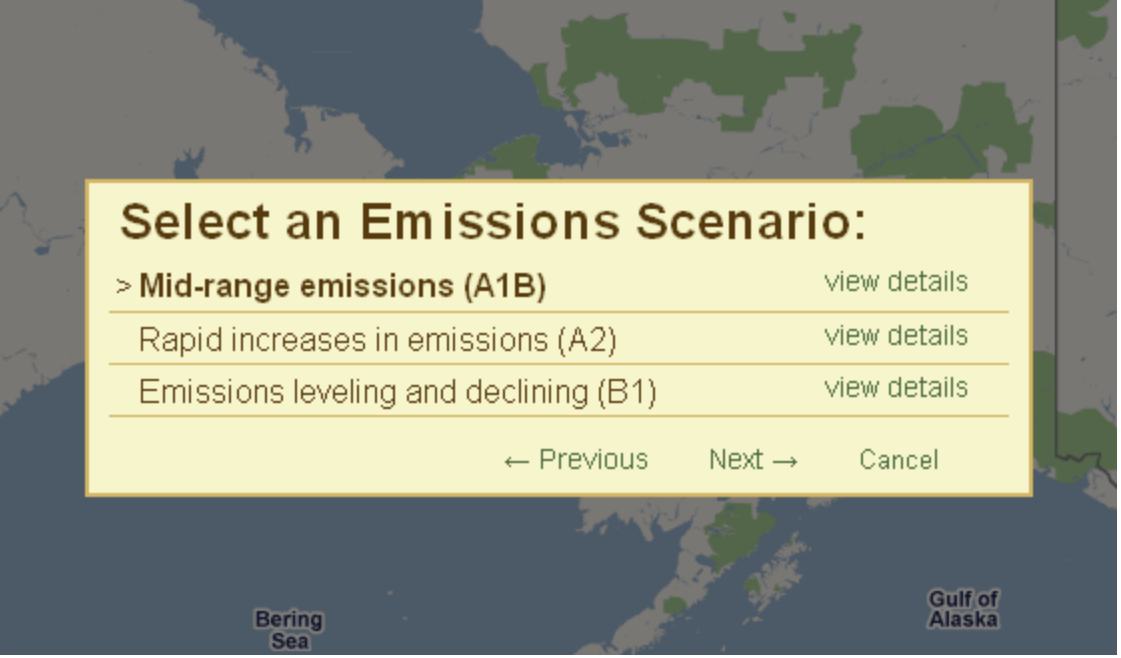
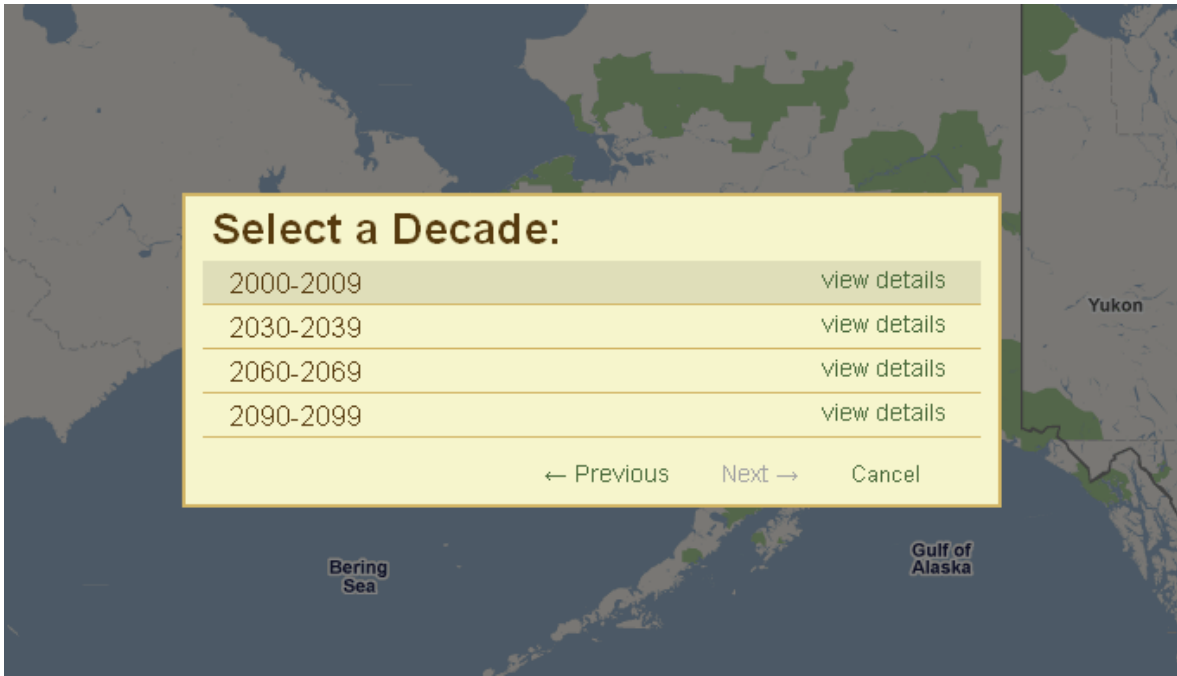
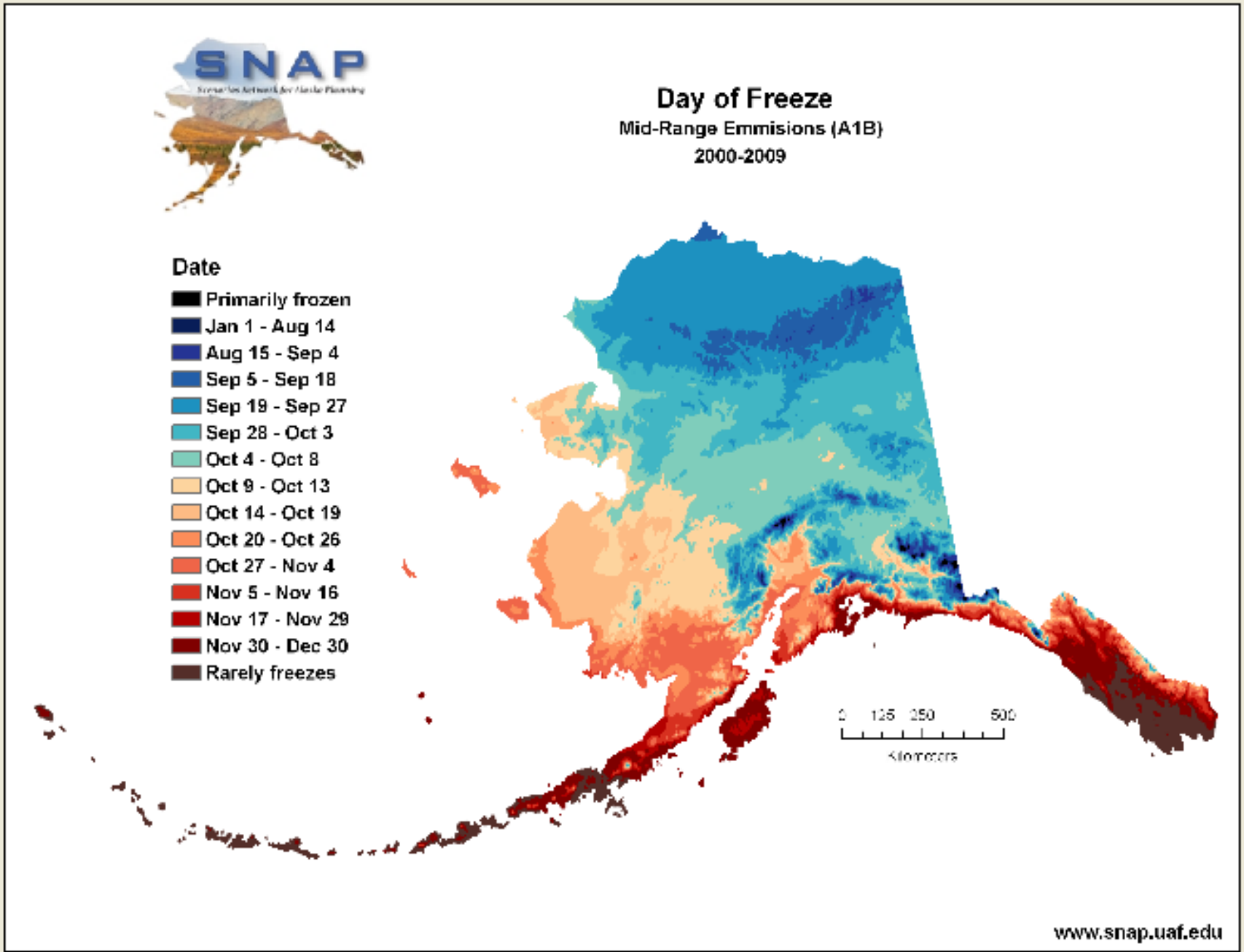
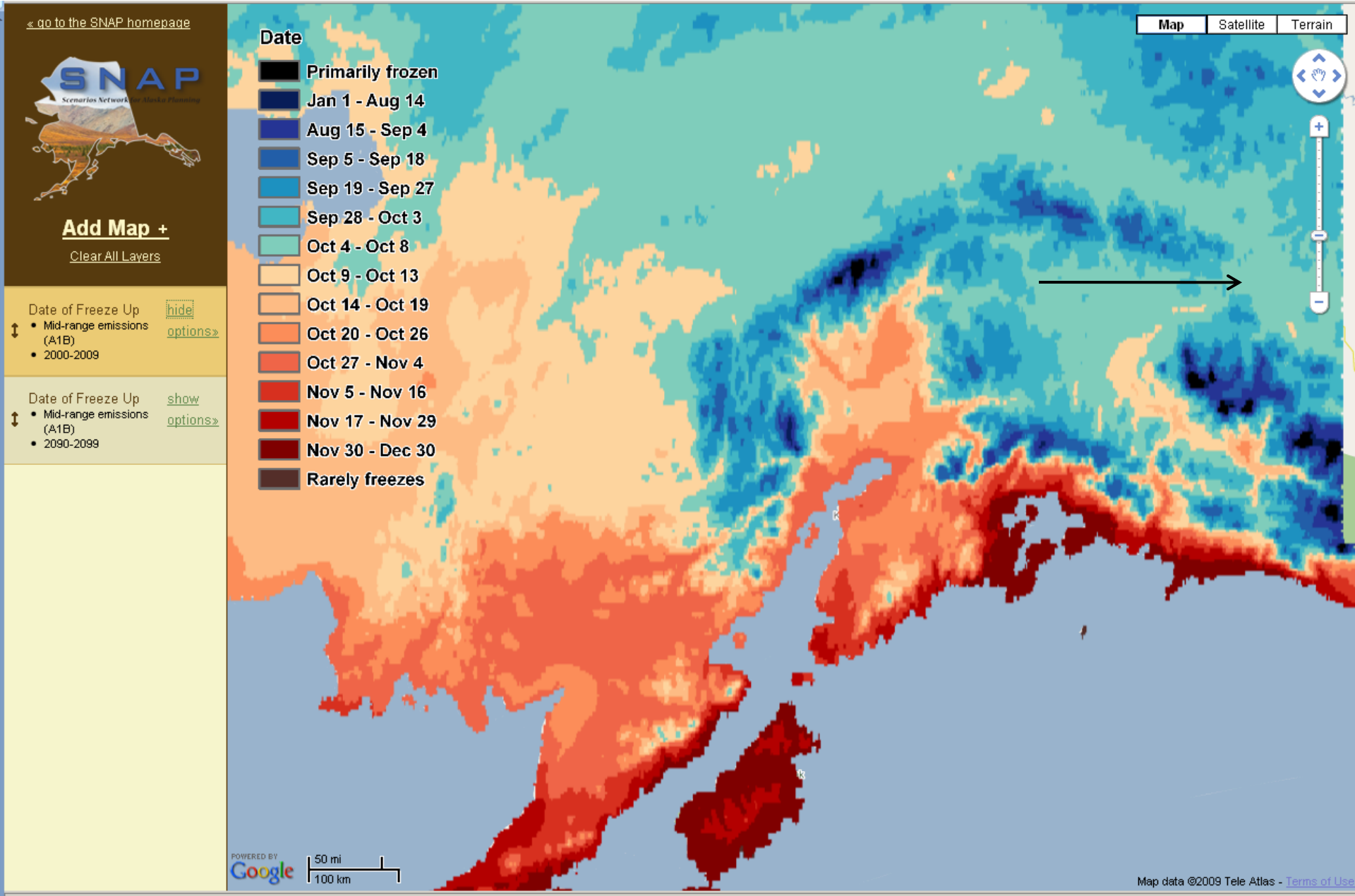
Add Map +
Clear All Layers
Map
Satellite
Terrain
Chukchi Sea
Beaufort Sea
Details for Length of Growing Season - Mozilla Firefox
http://www.snap.uaf.edu/select-maps/details.php?field=layerField
Length of Growing Season
Number of days between spring thaw and autumn freezeup. Across the state, length of summer season is projected to increase, and winters conversely are projected to shorten. These maps depict the time interval between spring thaw and autumn freeze-up, as defined by the time at which mean temperatures cross 0°. Note that this time span does not correspond to growing season for crops. These data were derived by interpolating daily temperature values based on linear temperature ramps between monthly means. Mean values were assumed to occur in the middle of each month. Areas which do not experience mean temperatures below freezing appear in dark brown on these maps. Striking increases in growing season length are projected across the southcentral, interior, and northern regions of the state.
Done
Select a Map Layer:
Length of Growing Season view details
Date of Freeze Up view details
Date of Thaw view details
← Previous
Next →
Cancel
Bering Sea
Gulf of Alaska
Alberta
British Columbia
Edmonton
Calgary
Vancouver
Seattle
Washington
Portland
Oregon
Idaho
Salt Lake
Google
200 mi
500 km
Map data ©2009 Geocentre Consulting, Tele Atlas - Terms of Use
Done


Select an Emissions Scenario:
> Mid-range emissions (A1B) view details
Rapid increases in emissions (A2) view details
Emissions leveling and declining (B1) view details
← Previous Next → Cancel
Bering Sea
Gulf of Alaska


Select a Decade:
2000-2009 view details
2030-2039 view details
2060-2069 view details
2090-2099 view details
← Previous Next → Cancel
Yukon
Bering Sea
Gulf of Alaska

http://www.snap.uaf.edu/select-maps/images/mapping/optimized/gcm-decadal-avg/NAD83_map_layout/FreezeDay.mean.nad83AKalbers.5Mod




« go to the SNAP homepage
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Add Map +
Clear All Layers
Date of Freeze Up
• Mid-range emissions (A1B)
• 2000-2009
hide options»
Date of Freeze Up
• Mid-range emissions (A1B)
• 2090-2099
show options»
Date
Primarily frozen
Jan 1 - Aug 14
Aug 15 - Sep 4
Sep 5 - Sep 18
Sep 19 - Sep 27
Sep 28 - Oct 3
Oct 4 - Oct 8
Oct 9 - Oct 13
Oct 14 - Oct 19
Oct 20 - Oct 26
Oct 27 - Nov 4
Nov 5 - Nov 16
Nov 17 - Nov 29
Nov 30 - Dec 30
Rarely freezes
Map
Satellite
Terrain
POWERED BY Google
50 mi
100 km
Map data ©2009 Tele Atlas - Terms of Use

Done

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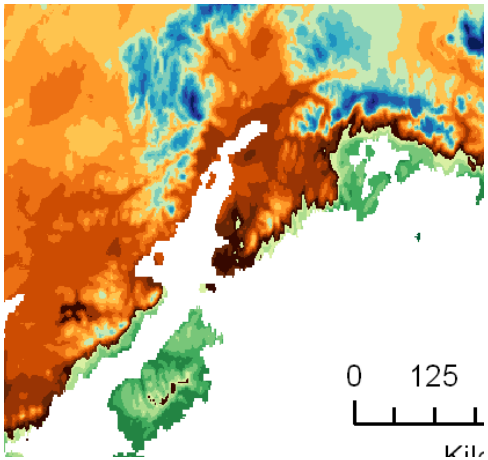
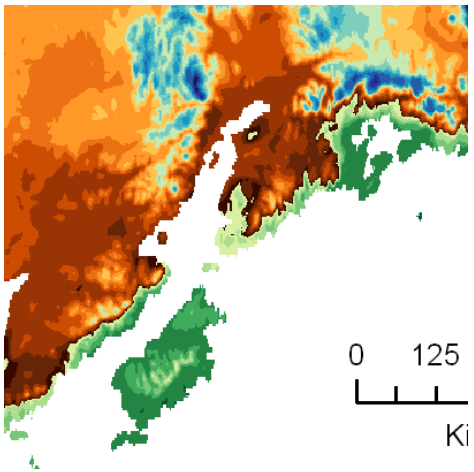
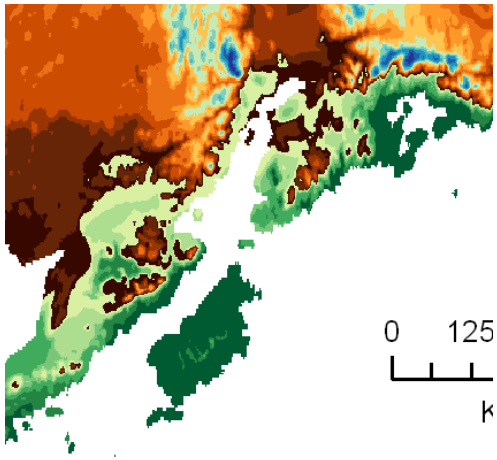
Length of Growing Season
Mid-Range Emissions (A1B)
2000-2009



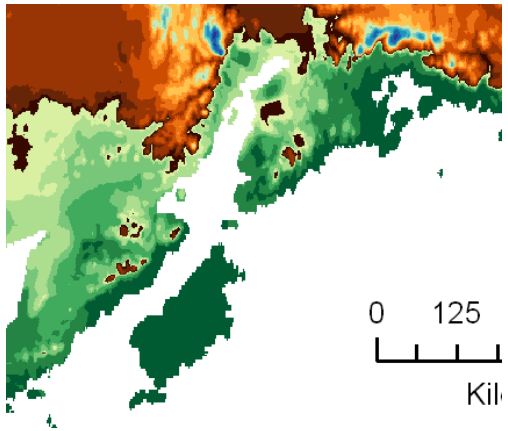
Length of Growing Season
Mid-Range Emissions (A1B)
2030-2039



Length of Growing Season
Mid-Range Emissions (A1B)
2060-2069



Length of Growing Season
Mid-Range Emissions (A1B)
2090-2099



Number of Days

- 0 - 38
- 39 - 84
- 85 - 117
- 118 - 136
- 137 - 146
- 147 - 155
- 156 - 167
- 168 - 178
- 179 - 187
- 188 - 198
- 199 - 211
- 212 - 226
- 227 - 242
- 243 - 259
- 260 - 276
- 277 - 294
- 295 - 314
- 315 - 336
- 337 - 354
- 355 - 365

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Spotlight

Climate Change Impacts on Water Availability in Alaska

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- Home
- SNAP Overview
- SNAP In-Depth
- News Archive
- Contact Info
- Partners & Affiliations

SNAP Projects

- Governor's Climate Change Subcabinet
- Boreal ALFRESCO
- All Projects

Maps & Data

- Web-based Maps
- Google Earth Maps
- GIS Maps

Documents

- Presentations
- Reports
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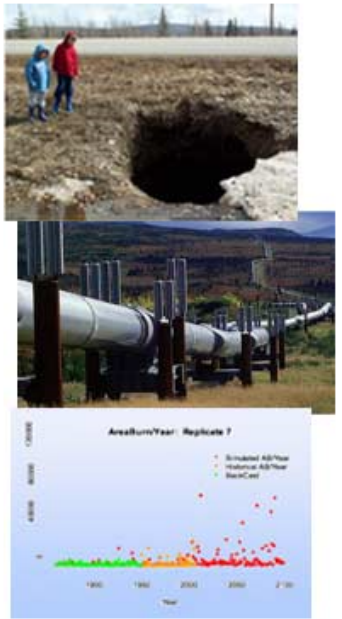

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Home
SNAP Overview
SNAP In-Depth
News Archive
Contact Info
Partners & Affiliations

SNAP Projects

Governor's Climate Change Subcabinet
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Web-based Maps

Google Earth Maps

You can use Google Earth to explore a wide range of climate projections for the state of Alaska at a 2km resolution. You must install the free Google Earth software on your computer to view these maps.

DOWNLOAD Google EARTH

The following sets of climate maps can be opened in Google Earth. They are combined with descriptive text that can be seen by clicking the links in the sidebar of Google Earth. If you have any troubles, please check our Google Earth Help page.

→ Statewide maps by decade and season, thaw and freeze dates, and more (333 bytes) Google EARTH

Temperature Scenarios: monthly maps 1980-2099 (1.6 KB) Google EARTH

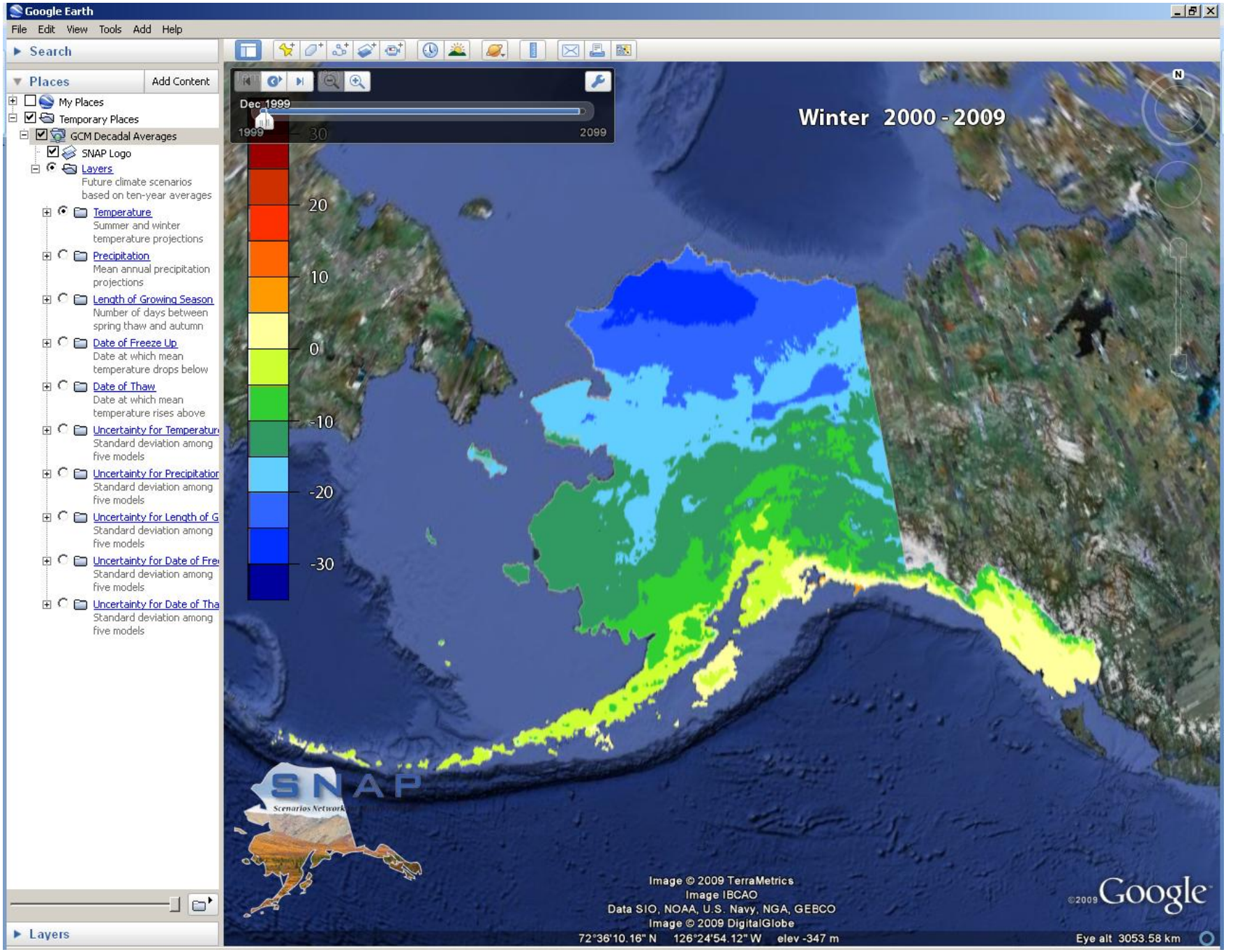
Precipitation Scenarios: monthly maps 1980-2099 (1.6 KB) Google EARTH

Click on “Statewide maps by decade and season, thaw and freeze dates, and more”.

ified 5/5/2009

Presentations

Click “OK” in the dialog box to open the file with Google Earth.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Search
Places
Add Content
My Places
Temporary Places
GCM Decadal Averages
SNAP Logo
Layers
Future climate scenarios based on ten-year averages
Temperature
Summer and winter temperature projections
Precipitation
Mean annual precipitation projections
Length of Growing Season
Number of days between spring thaw and autumn
Date of Freeze Up
Date at which mean temperature drops below
Date of Thaw
Date at which mean temperature rises above
Uncertainty for Temperatur
Standard deviation among five models
Uncertainty for Precipitatior
Standard deviation among five models
Uncertainty for Length of G
Standard deviation among five models
Uncertainty for Date of Fre
Standard deviation among five models
Uncertainty for Date of Tha
Standard deviation among five models
Layers
Dec 1999
1999
2099
Winter 2000 - 2009
30
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-30
N
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Scenarios Network
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Image IBCAO
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2009 DigitalGlobe
72°36'10.16" N 126°24'54.12" W elev -347 m
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Eye alt 3053.58 km

http://www.uaf.edu/accap/alaska_arctic.html

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SEARCH ACCAP:



Sea ice in Barrow courtesy of Lisa Baraff (left), ACCAP's Alaska Weather and Climate Highlights Map (center), Post-burn landscape courtesy of Paul Duffy (left).

Climate Change in Alaska and the Arctic

- Related ACCAP Webinars
- Related ACCAP Research Projects
- State and National Resources

For more details on downloading and viewing SNAP Projections and Maps

Related ACCAP Webinars (*Please see the archive page for a complete list*)

TUTORIAL: USING WEB-BASED AND GOOGLE EARTH MAPS OF PROJECTED CLIMATE CHANGE IN ALASKA

Nancy Fresco, Network Coordinator for Scenarios Network for Alaska Planning and Katie Kennedy, Education and Outreach Coordinator for the University of Alaska Geography Program

The University of Alaska, Scenarios Network for Alaska Planning (SNAP) provides quick and easy access to a wide range of climate projections for the state of Alaska at a 2km resolution. Data and maps are available for download in web-based and Google Earth formats. These maps show projected changes in temperature, precipitation, growing season length, freeze-up date and thaw date, and include documentation of uncertainties. Learn how to view, interpret and download available data and maps and discuss upcoming SNAP products.

Participants will need to download Google Earth to access the SNAP Google Earth maps. Click here to download Google Earth.
Listen to the Podcast of the tutorial
Presentation/Slides: Using web-based and Google Earth maps of projected climate change in Alaska

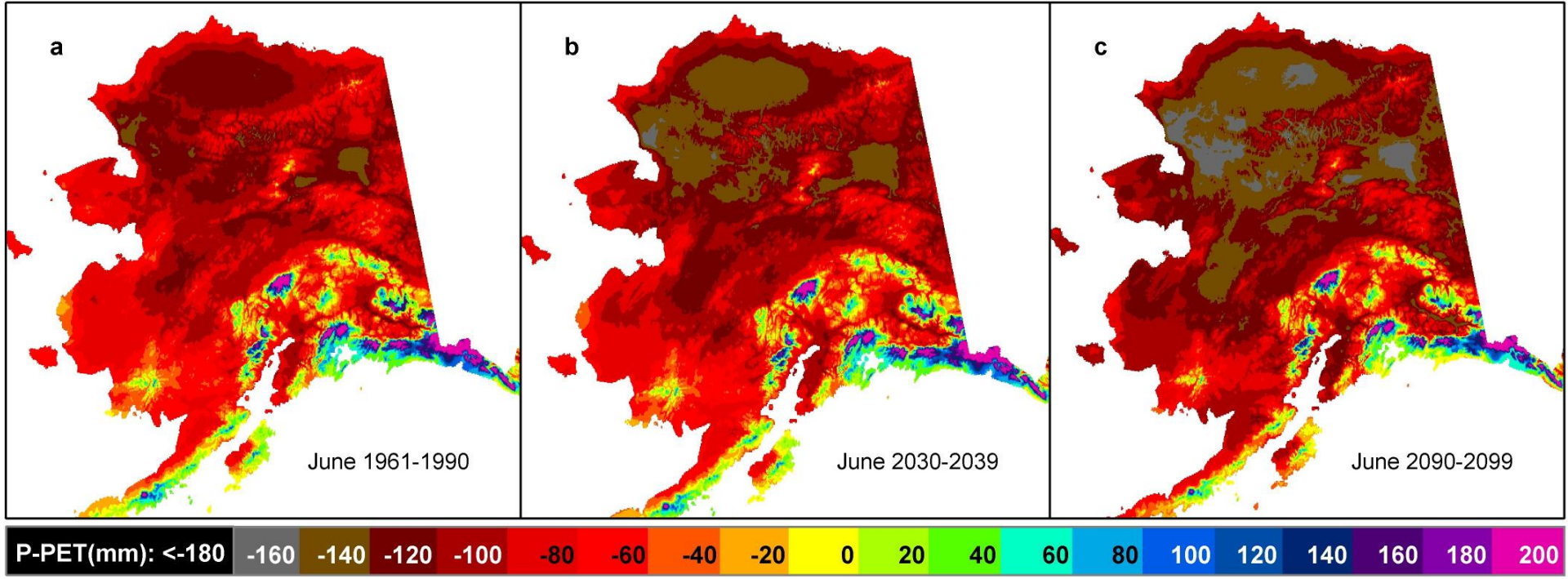
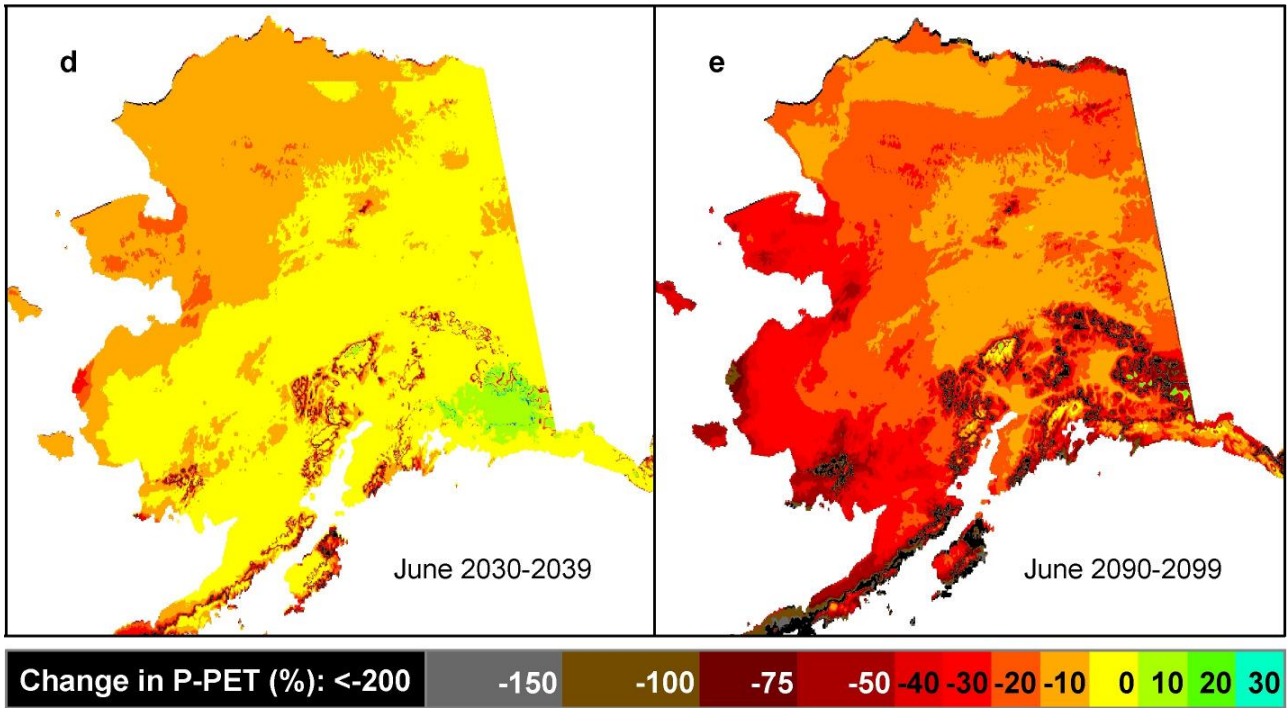
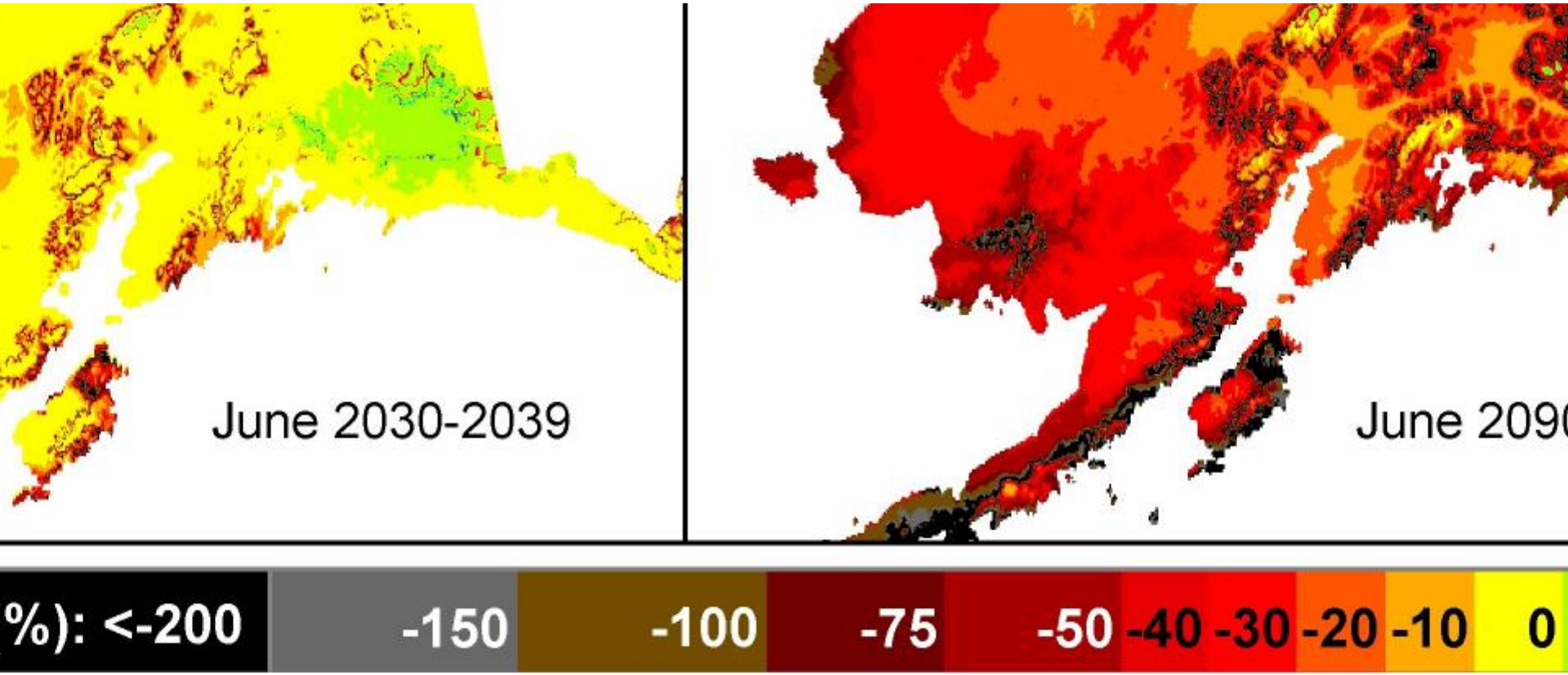


Figure 1. June water availability (P-PET) over the course of the next century (a,b,c).

Percent change in P-PET from historic values (e,f).



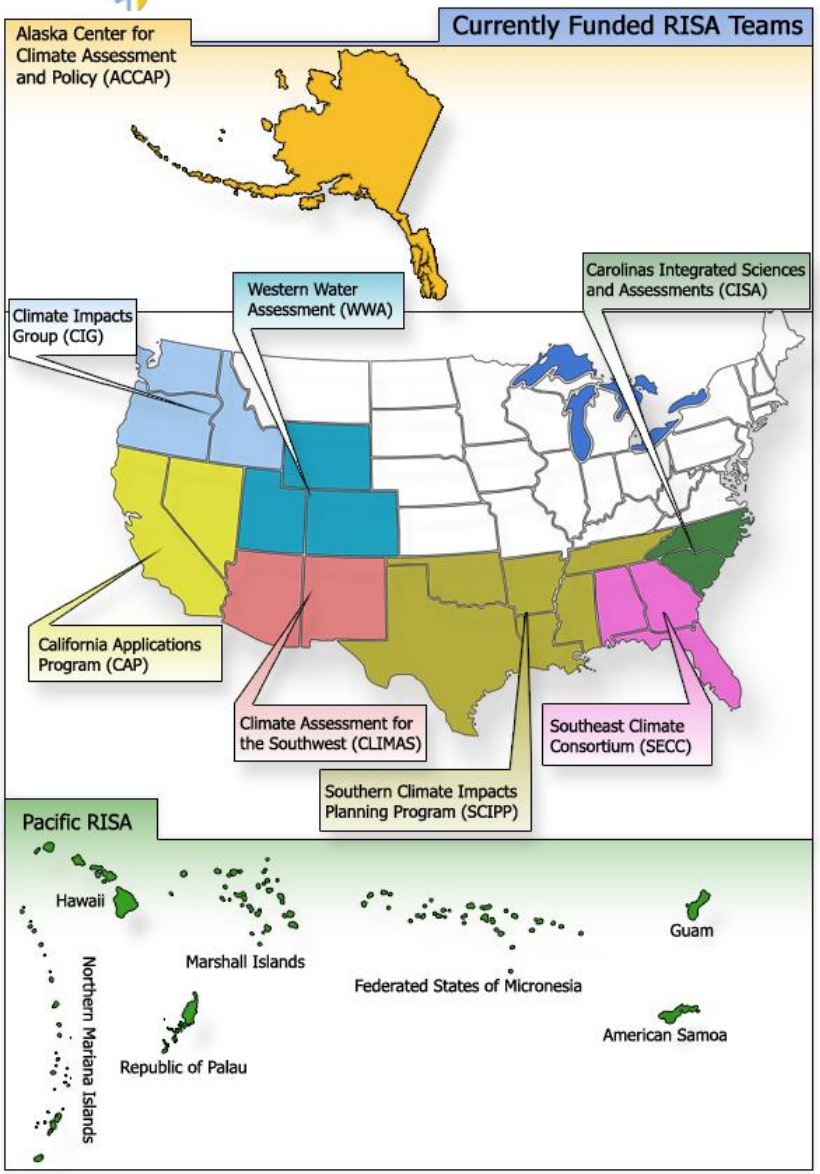
O'Brian et al. in prep



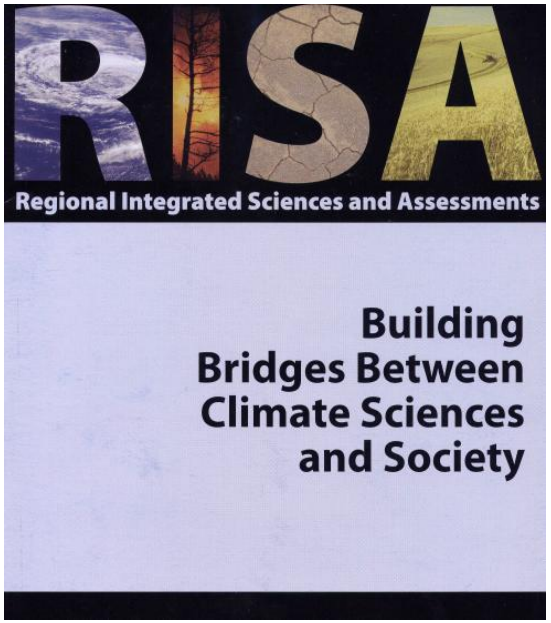
O'Brian et al. in prep

Percent change in P-PET from historic values.

ACCAP Tools & Resources



How can we improve the link between climate sciences and society?



http://www.climate.noaa.gov/cpo_pa/risa/

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- ABOUT ACCAP
- PEOPLE
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- CLIMATE CHANGE IN ALASKA & THE ARCTIC
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- MARINE IMPACTS
- NATIVE & RURAL IMPACTS
- SEA ICE
- WATER RESOURCES

Alaska Center for Climate Assessment & Policy
University of AK Fairbanks
P.O. Box 755910
306 Tanana Drive
Fairbanks, AK 99775-5910

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Alaska Center for Climate Assessment & Policy

SEARCH ACCAP: GO

The mission of the Alaska Center for Climate Assessment and Policy is to assess the socio-economic and biophysical impacts of climate variability in Alaska, make this information available to local and regional decision-makers, and improve the ability of Alaskans to adapt to a changing climate.

Each month ACCAP hosts an Alaska Climate Teleconference focused on a specific climate related topic. The December, 2007 teleconference focused on the fate of Bering Sea mammals with diminishing sea ice. Diminished sea ice has implications for walrus and ribbon seal populations as well as marine nutrient cycling. Click here for a teleconference summary.

PAUSE

** Highlights **

» Alaska Climate Teleconferences

Next Conference:

Tuesday, December 8
10:00-11am Alaska Local Time
CONNECTING ALASKA LANDSCAPES INTO THE FUTURE
Nancy Fresco, Scenarios Network for Alaska Planning, and Karen Murphy, US Fish and Wildlife Service

» Stakeholder Workshop for Assessment of Climate Change Impacts on Forested Ecosystems of Alaska

An all-day workshop addressing climate change impacts on Alaska's forests was hosted by the Scenarios Network for Alaska Planning (SNAP) and the USFS Pacific Northwest Research Station on November 5, 2009. The goals of the climate change impacts on forested ecosystems of Alaska project are to review and synthesize existing knowledge, provide a baseline and scenarios of change, and identify data gaps and uncertainties.
The workshop provided an opportunity to engage with the core research team and discuss what issues are important and how they can be addressed so the resulting report is relevant and useful. For more information on how to get involved, including links to the stakeholder survey and workshop evaluation survey, please see the project website.

» NOAA's 2009 Arctic Report Card has been published. Issued annually, the Arctic Report Card is a timely source for clear, reliable and concise environmental information on the state of the Arctic, relative to

3 of 24 - Clipboard
Item collected

http://www.uaf.edu/accap/marine_impacts.html

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SEARCH ACCAP:

Walrus group on "sikupik" courtesy of Gary Hufford (left), King Eider migration along the sea ice edge courtesy of Lisa Baraff (center), USCG Healy in the Bering Sea courtesy of Gary Hufford (right).

Marine Impacts

- Related ACCAP Webinars
- Links and Resources

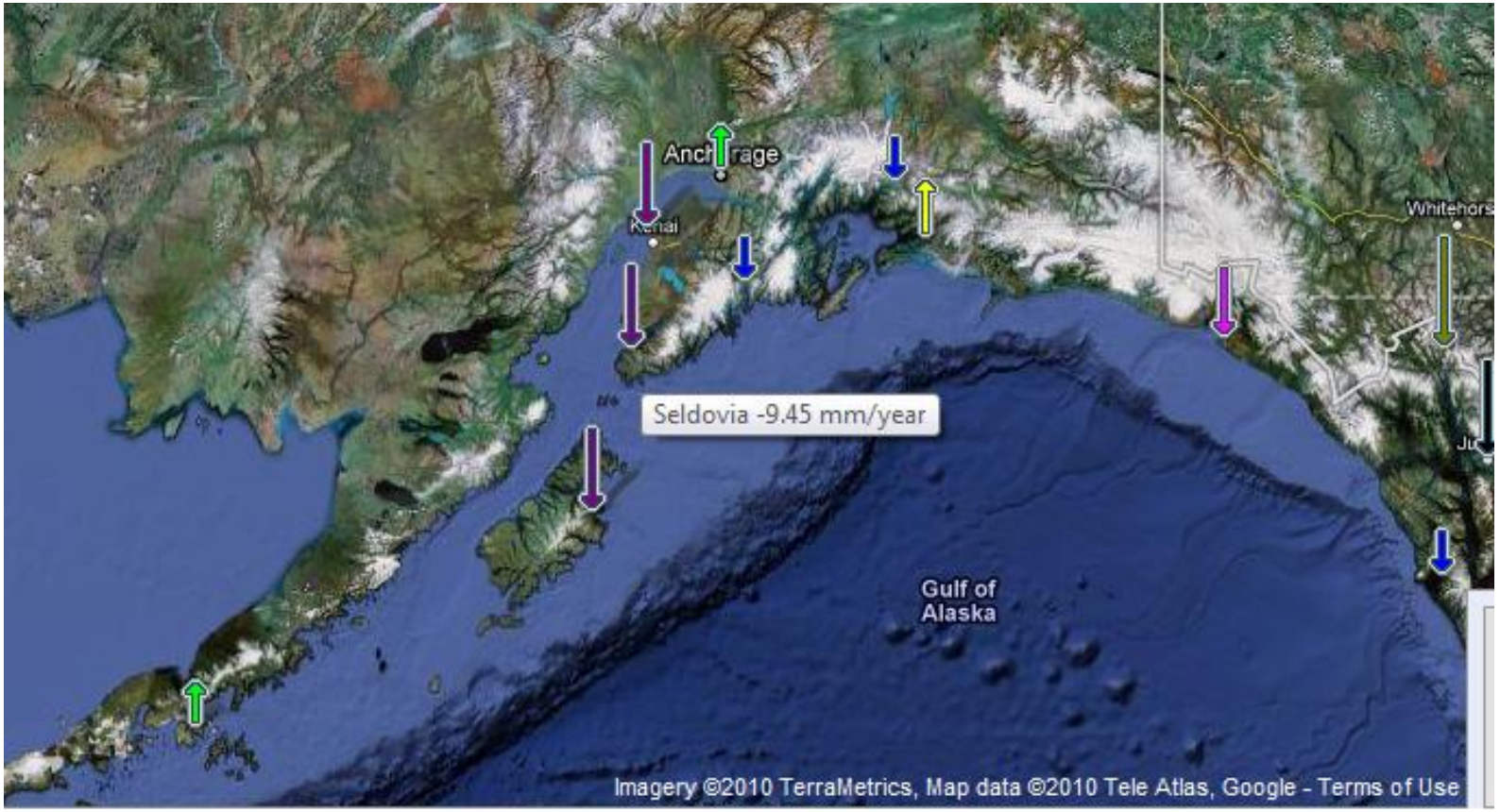
Related ACCAP Webinars

CLIMATE CHANGE AND ALASKA FISHERIES
Mike Sigler, NOAA Alaska Fisheries Science Center, Juneau

Fish harvests in the Arctic Ocean are small, yet the largest U.S. commercial fisheries lie immediately south in the Bering Sea. Some groundfish and crabs have moved northward. This trend is predicted to continue. A large ecosystem study of the Bering Sea aims to understand and forecast these changes. The Bering Sea project is funded by the North Pacific Research Board and the National Science Foundation (http://bsierp.nprb.org/). Join us learn more about climate impacts on Alaska fisheries.

Alaska Center for Climate Assessment & Policy
University of AK Fairbanks

http://tidesandcurrents.noaa.gov/sltrends/sltrends.shtml



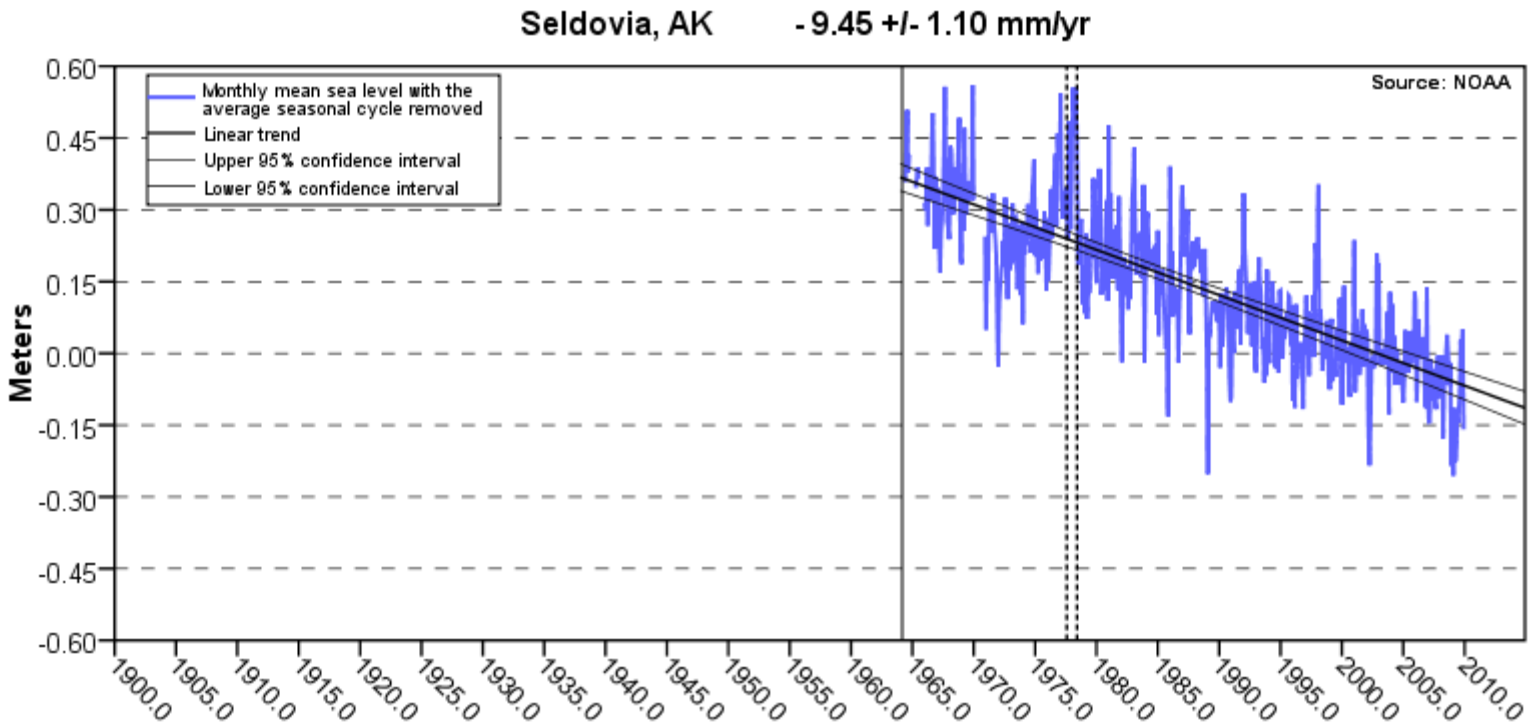
ıstrates regional trends in sea level, with arrows representing the direction and magnitude of change.
additional information about that station.

Sea Level Trends
mm/yr (feet/century)

9 to 12 (3 to 4)	3 to 6 (1 to 2)	-3 to 0 (-1 to 0)	-9 to -6 (-3 to -2)	-15 to -12 (-5 to -4)
6 to 9 (2 to 3)	0 to 3 (0 to 1)	-6 to -3 (-2 to -1)	-12 to -9 (-4 to -3)	-18 to -15 (-6 to -5)

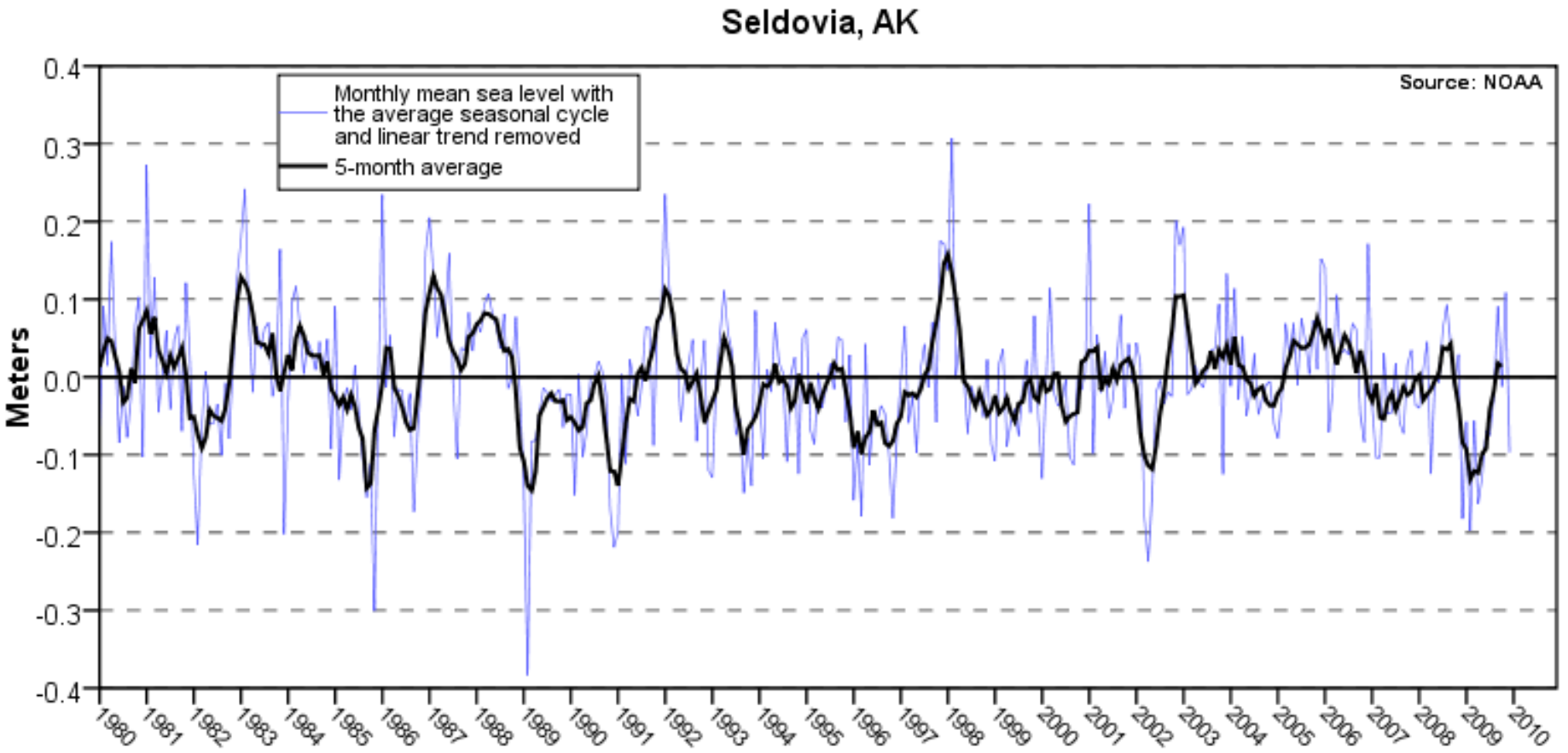
Minimum 30 years of observations
Averaged by month to remove the effect of waves and tides

Mean Sea Level Trend
9455500 Seldovia, Alaska



The mean sea level trend is -9.45 millimeters/year with a 95% confidence interval of +/- 1.10 mm/yr based on monthly mean sea level data from 1964 to 2006 which is equivalent to a change of -3.10 feet in 100 years.

Interannual variation since 1980
9455500 Seldovia, Alaska



The average seasonal cycle and linear sea level trend have been removed. Interannual variation is caused by irregular fluctuations in coastal ocean temperatures, salinities, winds, atmospheric pressures, and ocean currents. The interannual variation for many Pacific stations is closely related to the El Niño Southern Oscillation (ENSO).

http://www.uaf.edu/accap/research/forest_assessment.htm

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- HOME
- ALASKA CLIMATE TELECONFERENCES
- ALASKA WEATHER & CLIMATE HIGHLIGHTS
- ABOUT ACCAP
- PEOPLE
- RESEARCH
- RELATED LINKS

INFORMATION & RESOURCES

- CLIMATE CHANGE IN ALASKA & THE ARCTIC
- DATA RESOURCES
- FOREST IMPACTS & WILD FIRE
- MARINE IMPACTS
- NATIVE & RURAL IMPACTS
- SEA ICE
- WATER RESOURCES

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Fairbanks, AK 99775-5910

Mendenhall Lake in the Tongass National Forest (left) courtesy of the US Forest Service. Forested Communities of Alaska Map (middle) courtesy of Scenarios Network for Alaska Planning. Click here to view the larger image. Spruce Beetle infested forest (right) courtesy of UAF Cooperatve Extension Service.

Assessing Climate Change Impacts on Forested Ecosystems of Alaska

Project:	Assessing Climate Change Impacts on Forested Ecosystems of Alaska
Partners:	USFS Pacific Northwest Research Station, Scenarios Network for Alaska Planning
Primary Scientists:	Teresa Hollingsworth (USFS), T. Scott Rupp (SNAP, UAF), Sarah Trainor (ACCAP/SNAP, UAF)
Funded by:	U.S. Forest Service

- Project Description
- Stakeholder Workshop
- Resources

Climate Vulnerability & Adaptation Tools & Resources

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http://www.acia.uaf.edu/

ACIA

Arctic Climate Impact Assessment

An international project of the Arctic Council and the International Arctic Science Committee (IASC), to evaluate and synthesize knowledge on climate variability, climate change, and increased ultraviolet radiation and their consequences. The results of the assessment were released at the ACIA International Scientific Symposium held in Reykjavik, Iceland in November 2004.

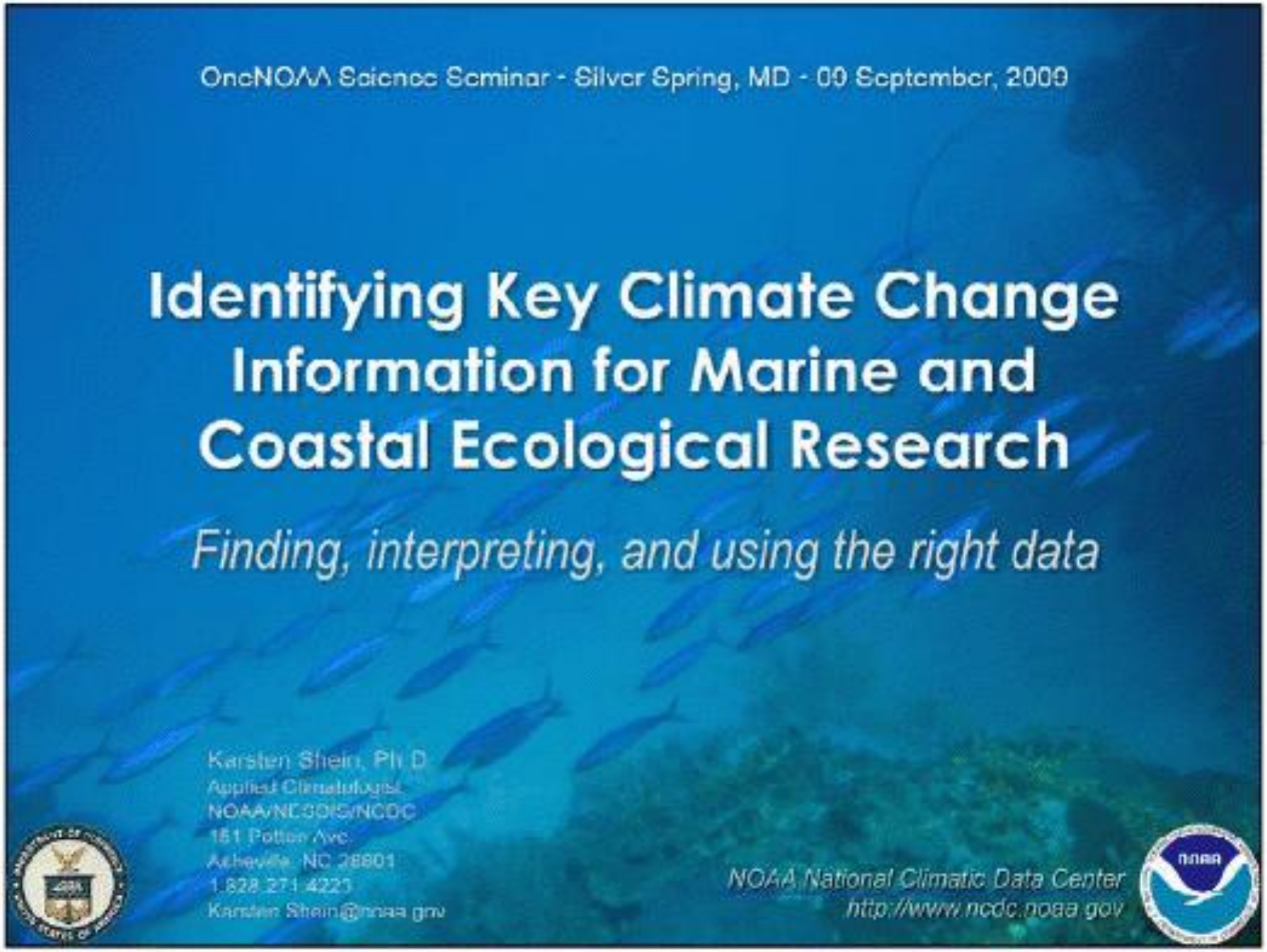
The Arctic Council is a high-level intergovernmental forum. The members are Canada, Denmark, Finland, Iceland, Norway, the Russian Federation, Sweden, and the United States of America. IASC is a non-governmental organization that facilitates cooperation in all aspects of arctic research in all countries engaged in arctic research and in all areas of the arctic region.

The ACIA Secretariat was hosted at the International Arctic Research Center at the University of Alaska Fairbanks. Funding for the Secretariat was provided by the U.S. National Science Foundation and the National Oceanic and Atmospheric Administration.

ACIA Reports

- ***Impacts of a Warming Arctic* – the 140-page synthesis report of the Arctic Climate Impact Assessment**
- **Scientific Report** - ***Downloadable index now available***
- **Policy Report**

The ACIA Policy Document was prepared by the Arctic Council and presented at the Fourth Arctic Council Ministerial Meeting, Reykjavik,



Available from Terry Johnson, Paula Cullenberg, or Sarah Trainor

http://nerrs.noaa.gov/Training/padillabay/project.html

COASTAL TRAINING PROGRAM

"Planning for Climate Change" Workshop

A customizable workshop for planners and other coastal decision-makers.

"Planning for Climate Change" was piloted in two locations in March 2009 in Washington State. It was geared primarily toward shoreline planners and developed so that Reserves around the country could customize the workshop and use it as part of their educational efforts regarding climate change. The workshops were well-received by the eighty-five planners who collectively attended, and the planning team felt that the curriculum accomplished the goals of laying a foundation and addressing the question of "Now What?"

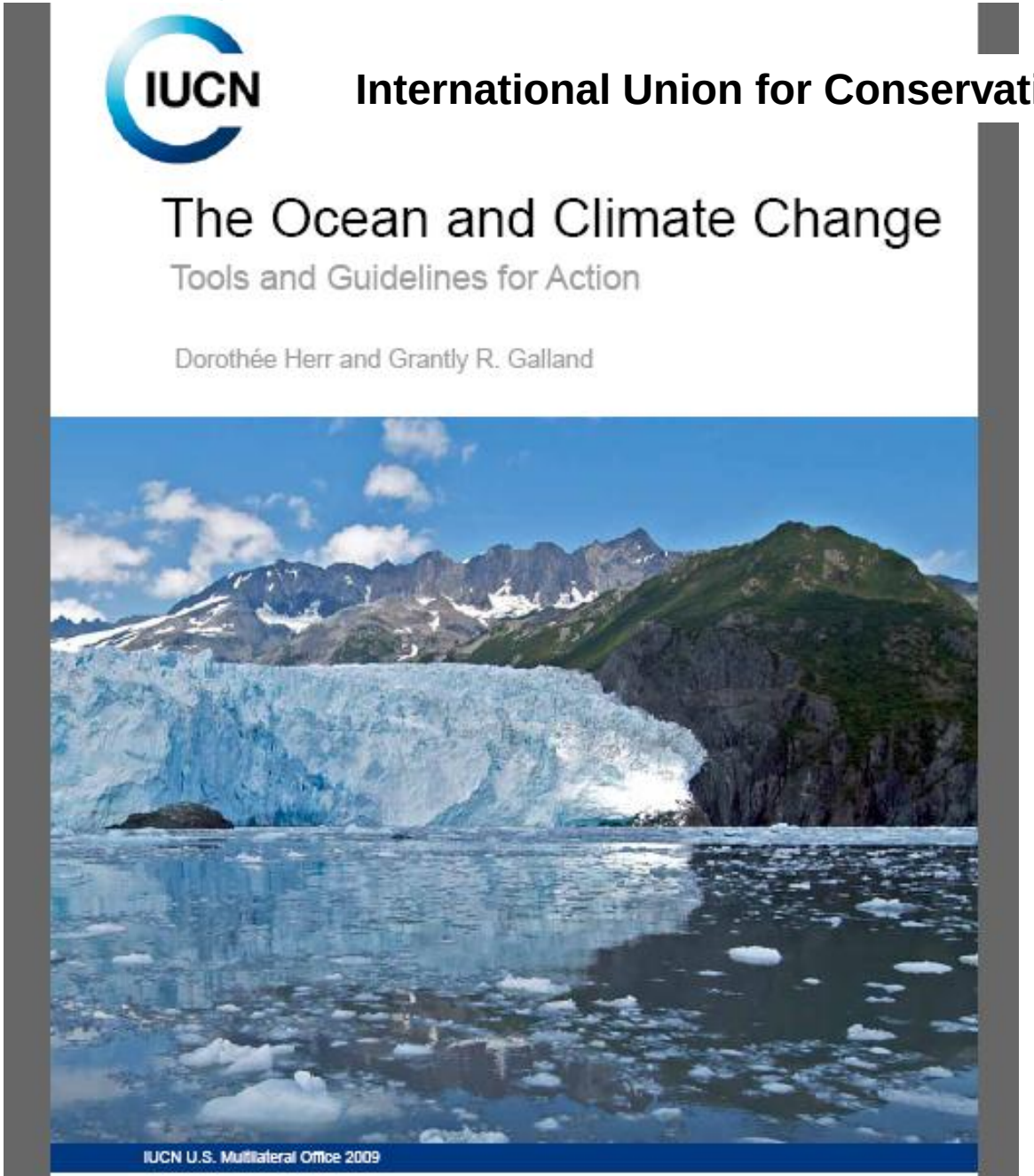
Facilitation Guidelines
Workshop Materials
Evaluation Summaries

- Class Description
- Class Materials
- Binder Contents
- Handouts on Resource Table
- Surveys
- Climate Training Resources
- Project Contacts
- Lessons learned
  Also Available in PDF

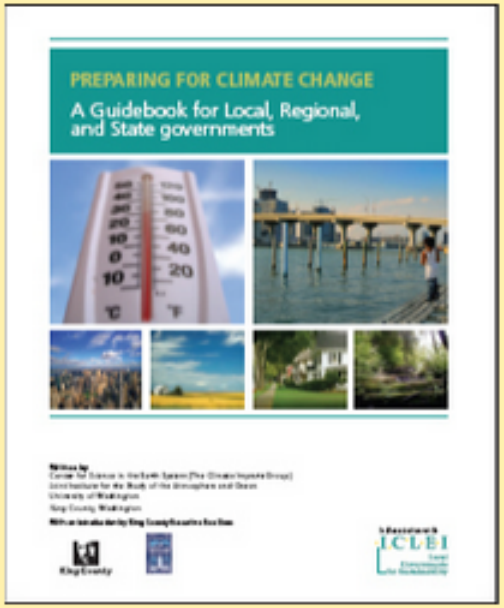
Streaming Video/ PowerPoint Presentations

If you are with another agency or institution, you are welcome to offer this workshop. **All of the materials, PowerPoint presentations, and streaming video are available here for your use**. We recommend that you think of this workshop as a "roadmap" which can be used in different ways. You can follow the route closely by using these materials, or simply use the materials as a starting point for giving you a general direction. It will be important for you to pull together a team of experts who can highlight the climate impacts expected in your region and speak about local planning issues and case studies.

http://cmsdata.iucn.org/downloads/the_ocean_and_climate_change.pdf



http://cses.washington.edu/cig/fpt/planning/guidebook/gateway.php



Preparing for Climate Change

A Guidebook for Local, Regional, and State Governments

Your Feedback on the Guidebook is Important

We would like to contact guidebook users in the future to assess the guidebook's overall effectiveness in supporting community-based efforts to adapt to climate change. This feedback will help us improve future editions of the guidebook and develop case studies on planning for climate change at the local level. **Involvement in this follow-up survey work is voluntary and is not required for downloading the PDF.**

Can we contact you in the future with questions about how the guidebook has helped your adaptation planning efforts?

- No thanks, take me to the guidebook PDF
- Yes (enter contact information below)

suggested checklist for governments on how to prepare for climate change

MILESTONE 1: Initiate your climate resiliency effort (Chapters 4-7)

- ☐ Scope the climate change impacts to your major sectors (Chapter 4)
- ☐ Pass a resolution or administrative order directing your government to prepare for climate change (Chapter 4)
- ☐ Build and maintain support to prepare for climate change (Chapter 5)
- ☐ Build your climate change preparedness team (Chapter 6)
- ☐ Identify your planning areas relevant to climate change impacts (Chapter 7)

MILESTONE 2: Conduct a climate resiliency study (Chapters 8-9)

- ☐ Conduct a climate change vulnerability assessment (Chapter 8)
- ☐ Conduct a climate change risk assessment (Chapter 9)
- ☐ Prioritize planning areas for action (Chapter 9)

MILESTONE 3: Set preparedness goals and develop your preparedness plan (Chapter 10)

- ☐ Establish a vision and guiding principles for a climate resilient community
- ☐ Set your preparedness goals
- ☐ Develop, select and prioritize your preparedness actions

MILESTONE 4: Implement your preparedness plan (Chapter 11)

- ☐ Ensure that you have the right implementation tools

MILESTONE 5: Measure your progress and update your plan (Chapter 12)

- ☐ Develop and track measures of resilience
- ☐ Update your plan

From: Preparing for Climate Change

Vulnerability Assessment and Adaptation Planning

Interior Issues Council Climate Change Task Force

ICLEI Local Governments for Sustainability

Fairbanks Economic Development Corporation

Welcome | Interior Issues Council | Projects | All About Fairbanks | About Us

IIC News

Climate Change Taskforce

Steering Committee:

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Adaptation & Mitigation

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Mission

The Interior Issues Council Climate Change Task Force is a group of citizens and public employees collaborating to estab
build a sustainable climate resilient community through education, public outreach, and borough-wide actions.

KEENE, NEW HAMPSHIRE

Adapting to Climate Change:
Planning a Climate Resilient Community

November 2007

Prepared by:

In association with:

ICLEI Local Governments for Sustainability

Natural Environment

Built Environment

Social Environment

Outreach & Education

Financial

Impacts

- Public and Private Infrastructure; Facility Administration & Maintenance
- Emergency Response/Preparedness
- Public Health
- Land Use
- Hydrology and Water Resources
- Borough Administration & Intergovernmental
- Tourism & Recreation
- Subsistence
- Other Economic Impacts

- Impacts
- Mechanism
- Data Needed
- Suggested Planning Actions

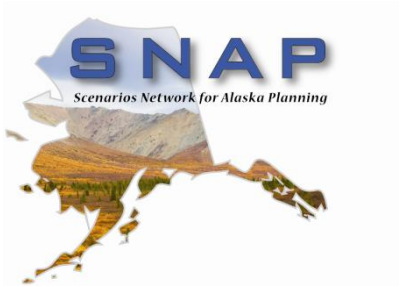
Potential Opportunities

- Fire fighting employment
- Expanded construction season
- Possible increase in agricultural production

- Opportunities
- Mechanism
- Data Needed
- Suggested Planning Action

Collaborating with Alaska Sea Grant on Coastal Community Adaptation


Thank You



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